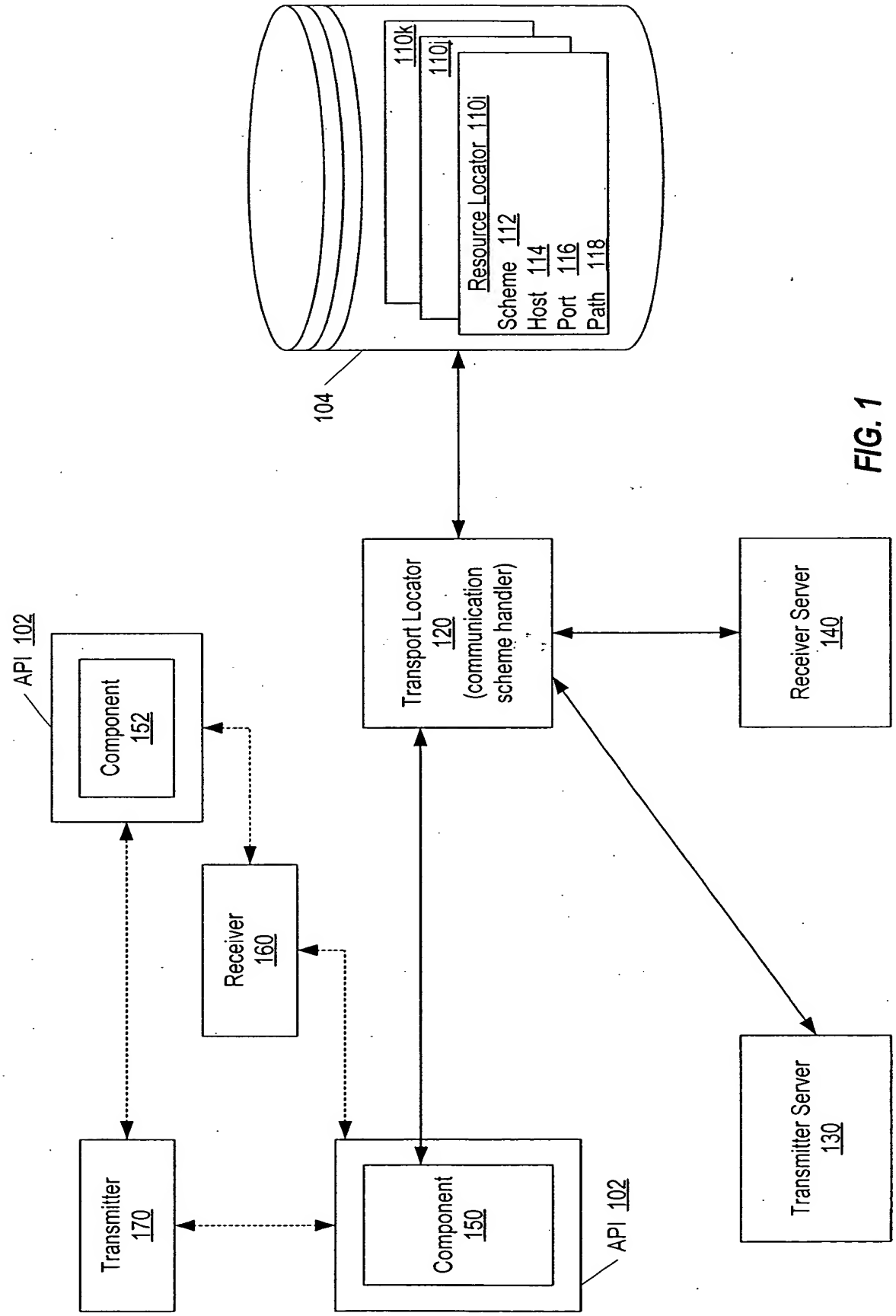
110k
110j
Resource Locator 110i
Scheme 112
Host 114
Port 116
Path 118
104
Transport Locator 120 (communication scheme handler)
Receiver Server 140
API 102
Component 152
Receiver 160
Transmitter 170
Component 150
API 102
Transmitter Server 130

FIG. 1

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DRAFTSMAN
BY
O.G. FIG.
CLASS
SUBCLASS

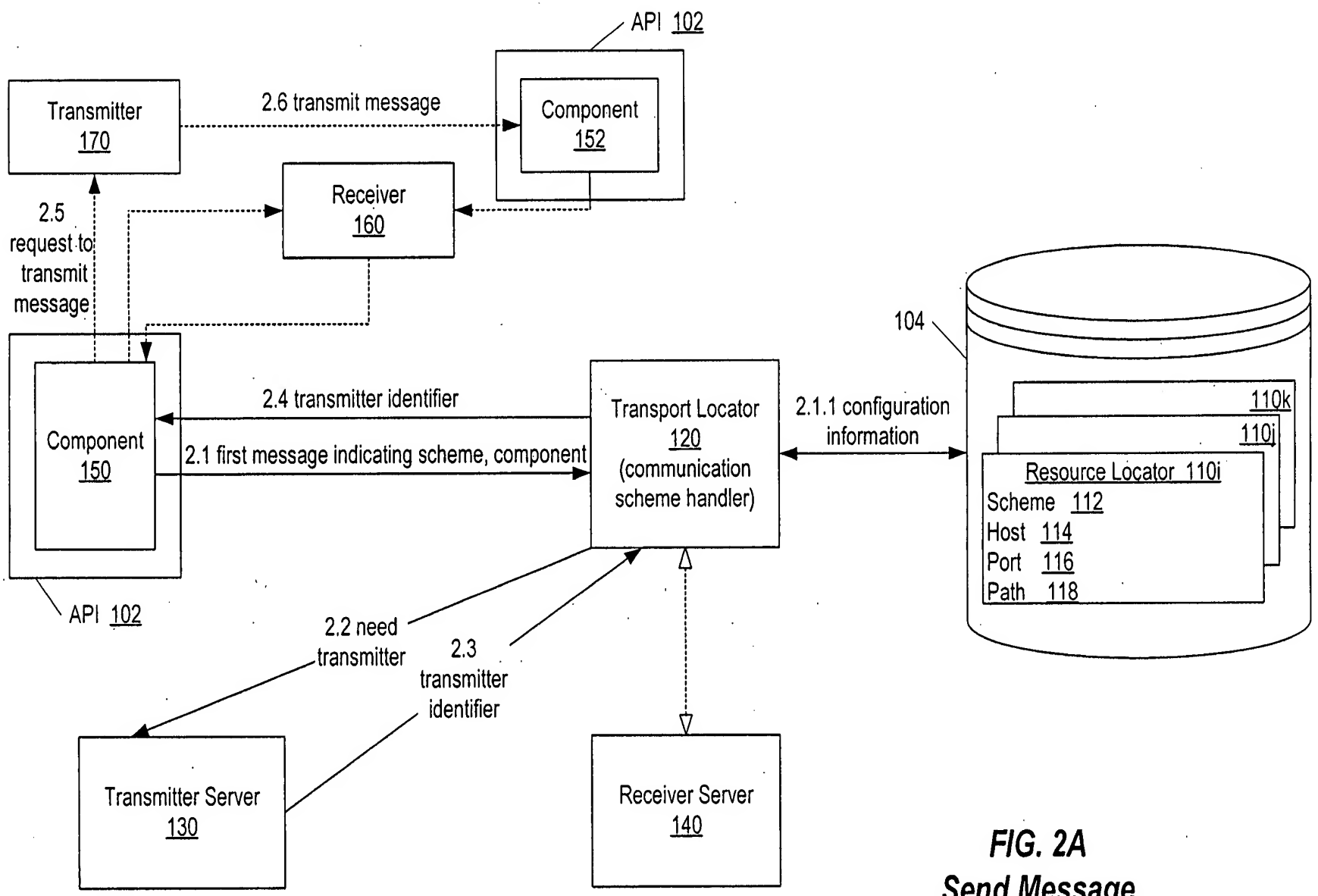

FIG. 2A
Send Message

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O.G. FIG.
CLASS
SUBCLASS

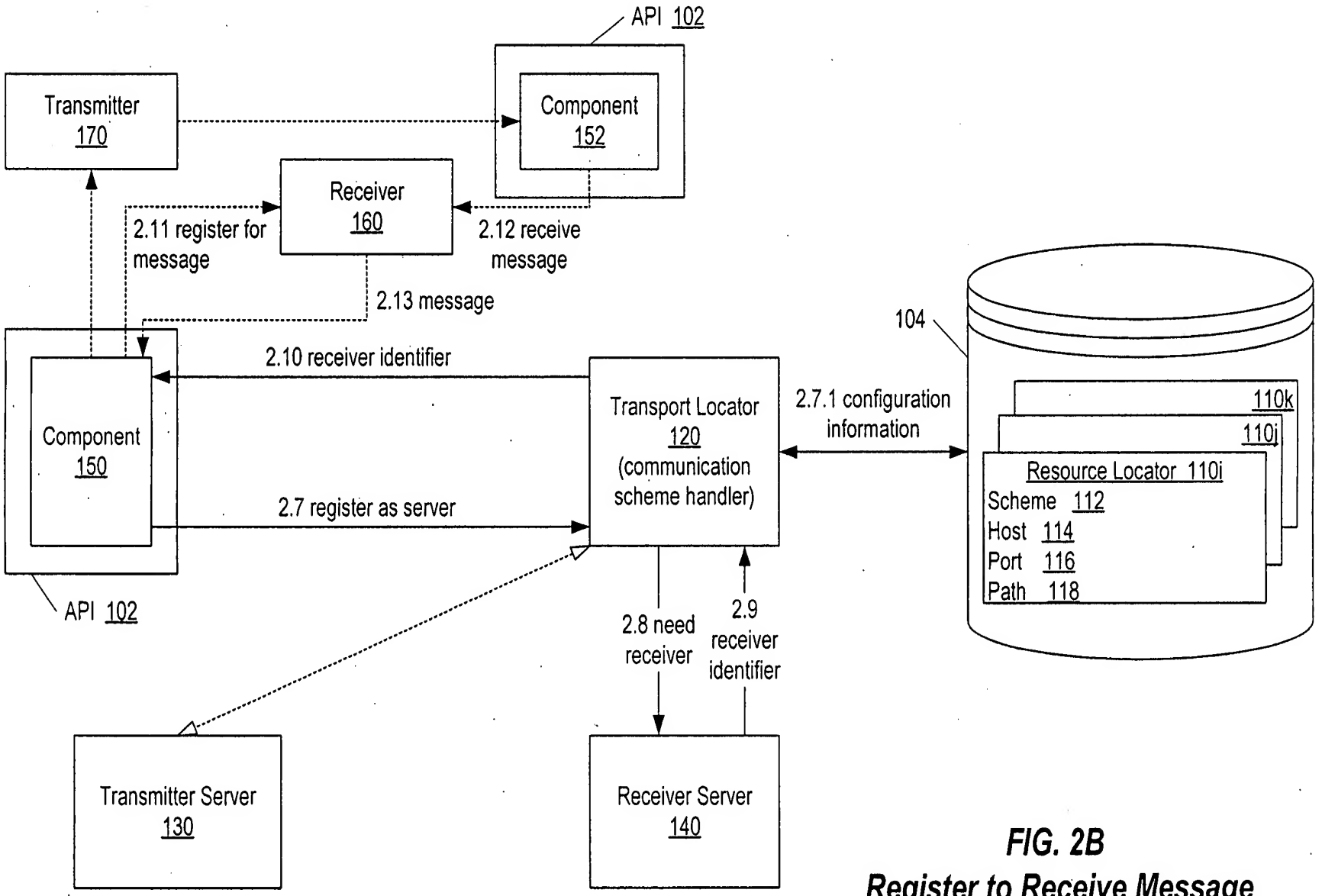

FIG. 2B
Register to Receive Message

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DRAFTSMAN
O.G. FIG.
CLASS
SUBCLASS
Attorney Docket No.: M-9218 US
Inventor: Donald C. Likes
Title: Communication Scheme-Independent Infrastructure

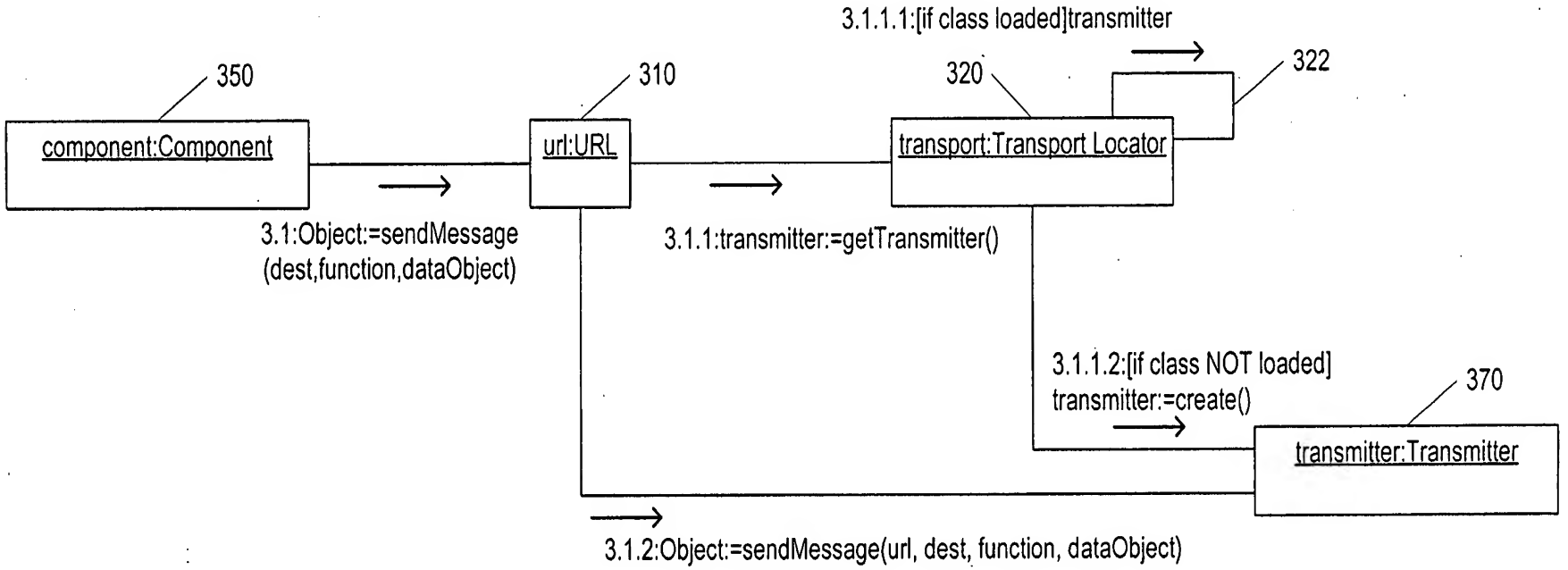

FIG. 3
Send Message

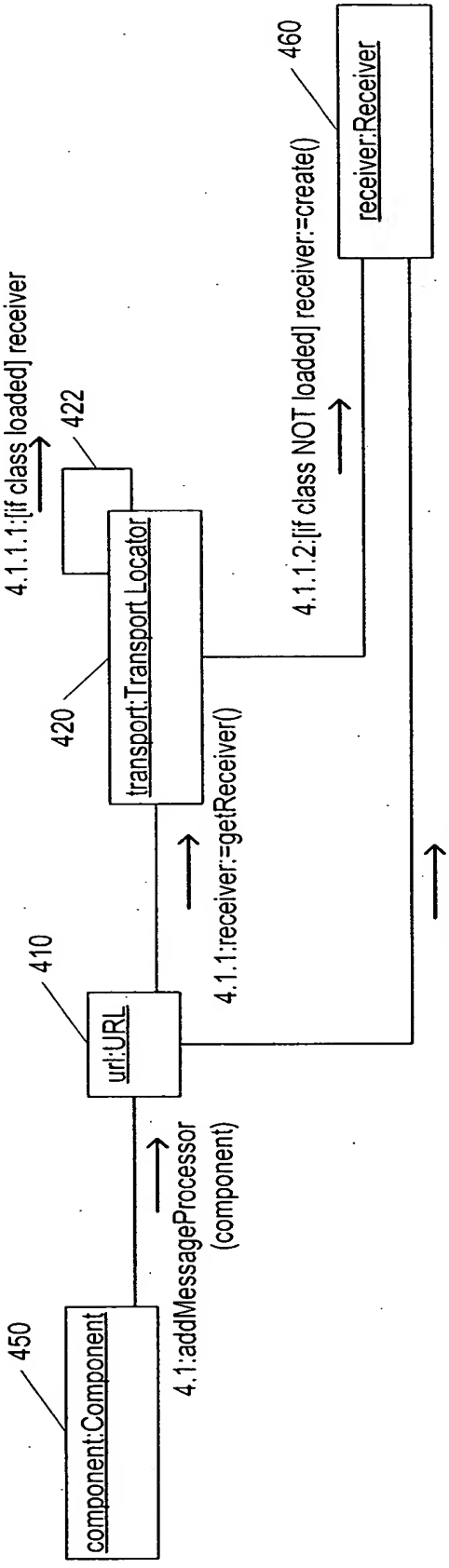

FIG. 4
Register to Receive Message

APPROVED | O.G. FIG.
BY | CLASS | SUBCLASS
DRAFTSMAN

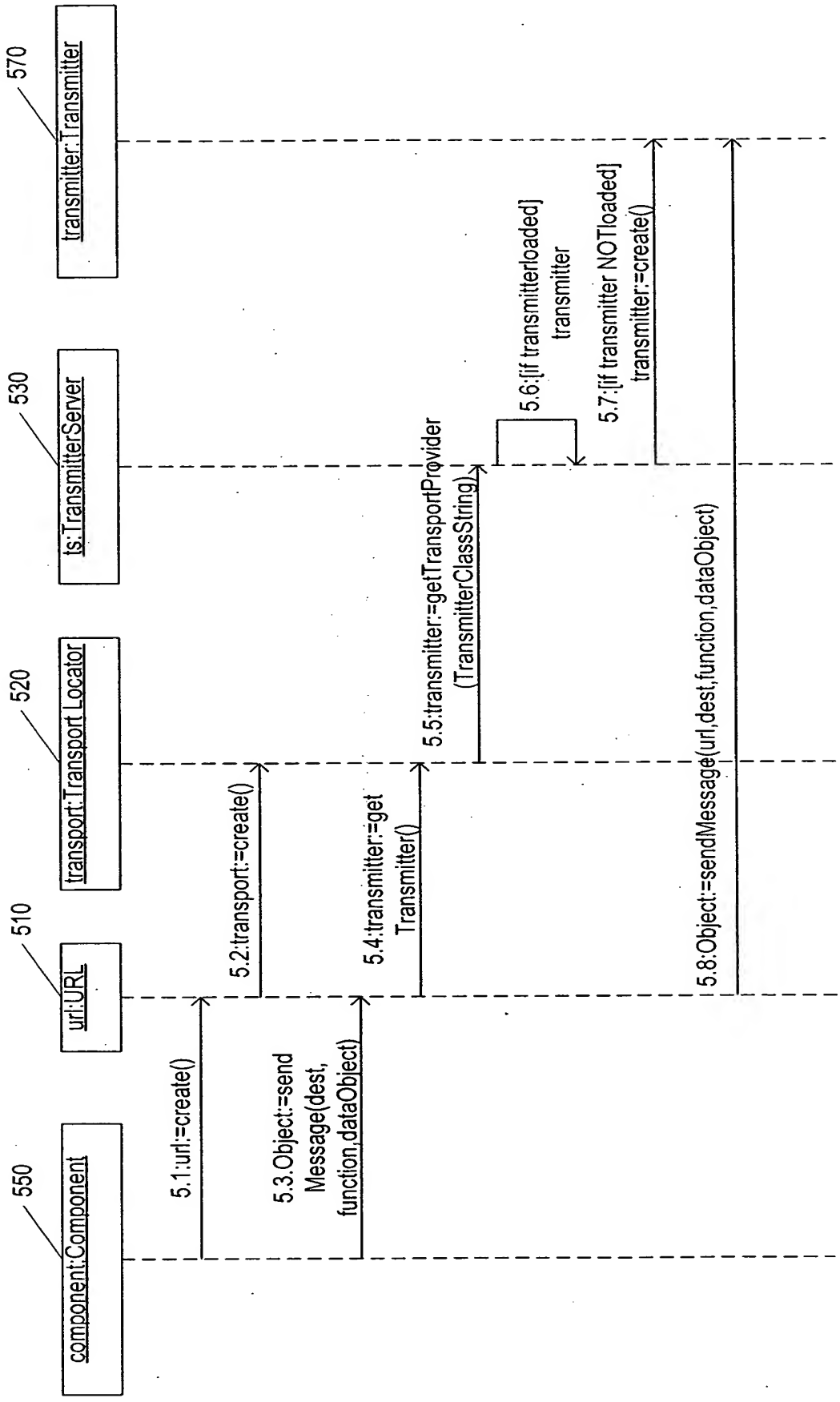

FIG. 5
Send Message

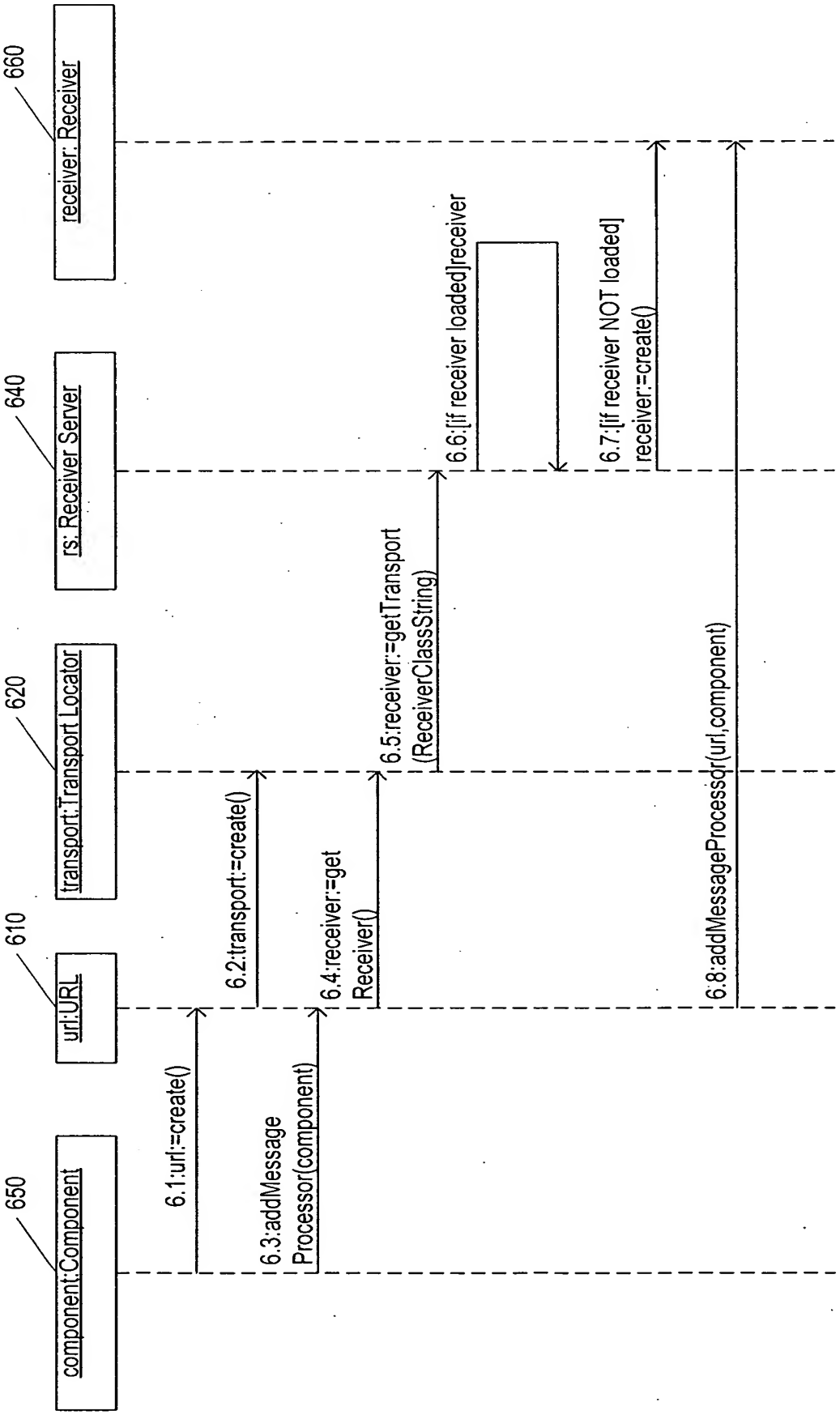

FIG. 6
Register to Receive Message

APPROVED
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DRAFTSMAN
O.G. FIG.
CLASS
SUBCLASS
Attorney Docket No.: M-9218 US
Inventor: Donald C. Likes
Title: Communication Scheme-Independent Infrastructure

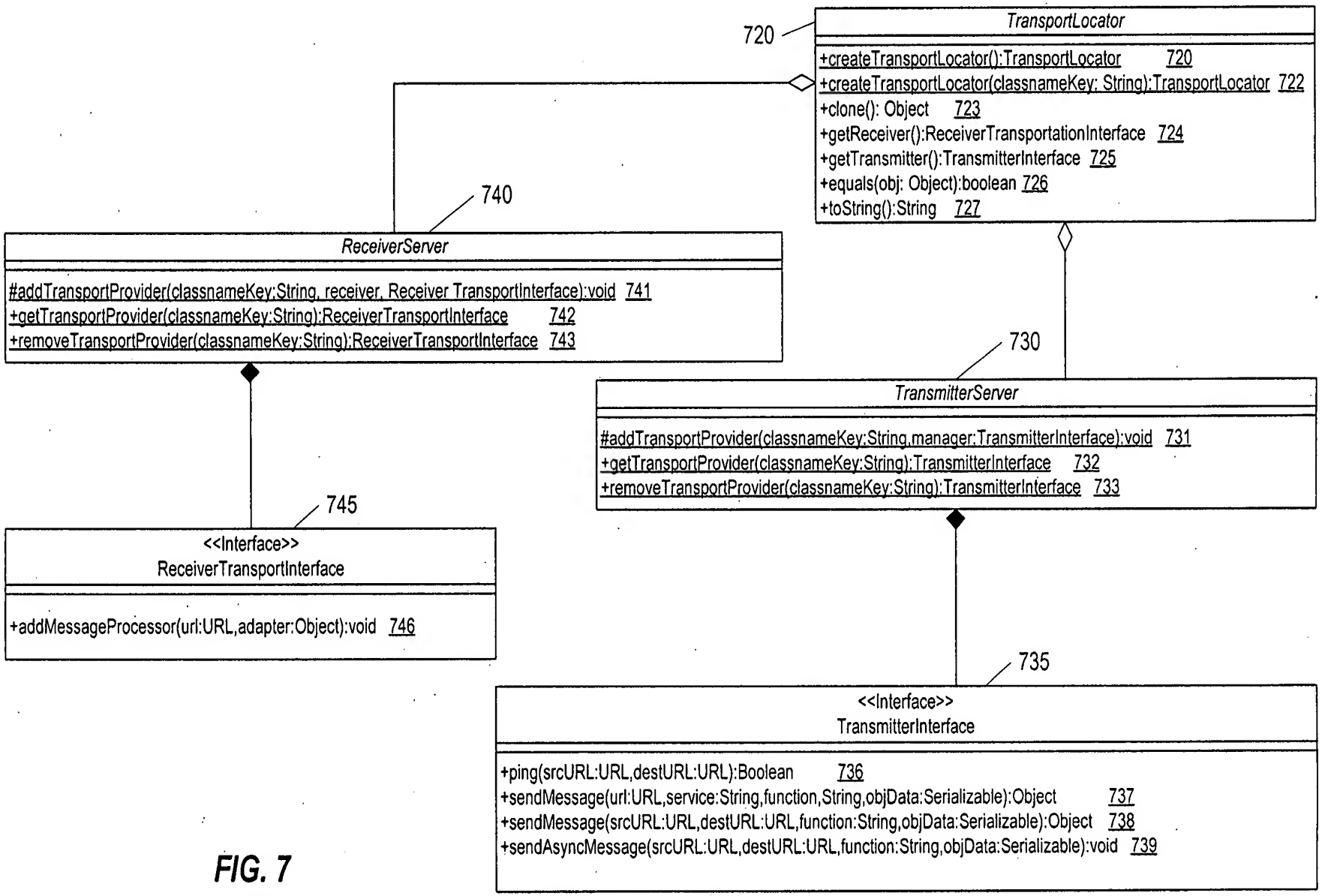

FIG. 7
Class Diagram

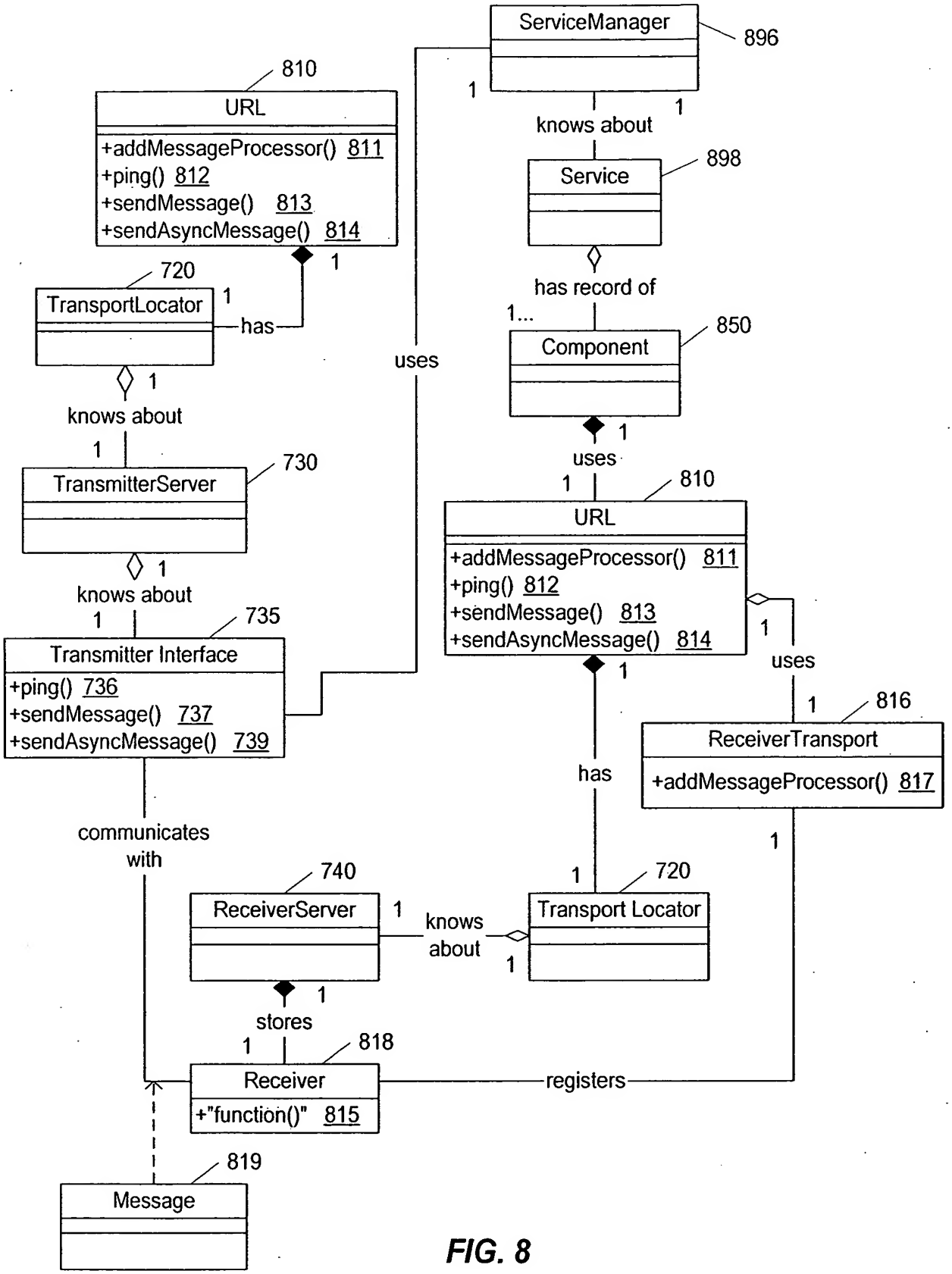
ServiceManager
896
810
URL
+addMessageProcessor() 811
+ping() 812
+sendMessage() 813
+sendAsyncMessage() 814
1
1
knows about
898
Service
720
TransportLocator
1
has
has record of
1...
850
Component
uses
1
knows about
1
uses
730
TransmitterServer
1
knows about
1
735
Transmitter Interface
+ping() 736
+sendMessage() 737
+sendAsyncMessage() 739
1
810
URL
+addMessageProcessor() 811
+ping() 812
+sendMessage() 813
+sendAsyncMessage() 814
1
uses
1
816
ReceiverTransport
+addMessageProcessor() 817
has
1
communicates with
740
ReceiverServer
1
knows about
1
720
Transport Locator
1
stores
1
818
Receiver
+"function()" 815
registers
819
Message

FIG. 8

APPROVED BY DRAFTSMAN | O.G. FIG. | CLASS | SUBCLASS

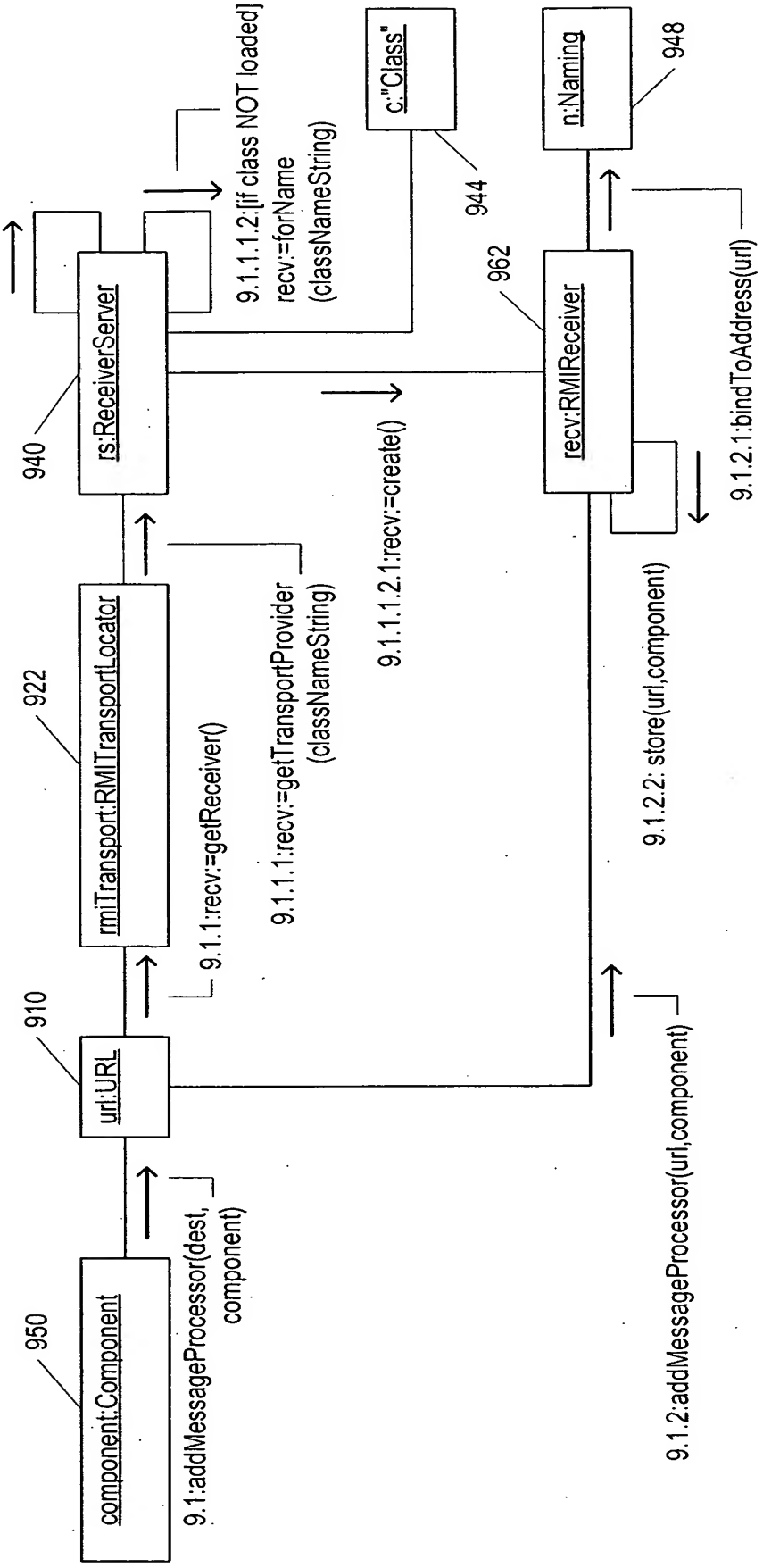

FIG. 9
RMI Register to Receive Message

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DRAFTSMAN
O.G. FIG.
CLASS
SUBCLASS
Attorney Docket No.: M-9218 US
Inventor: Donald C. Likes
Title: Communication Scheme-Independent Infrastructure

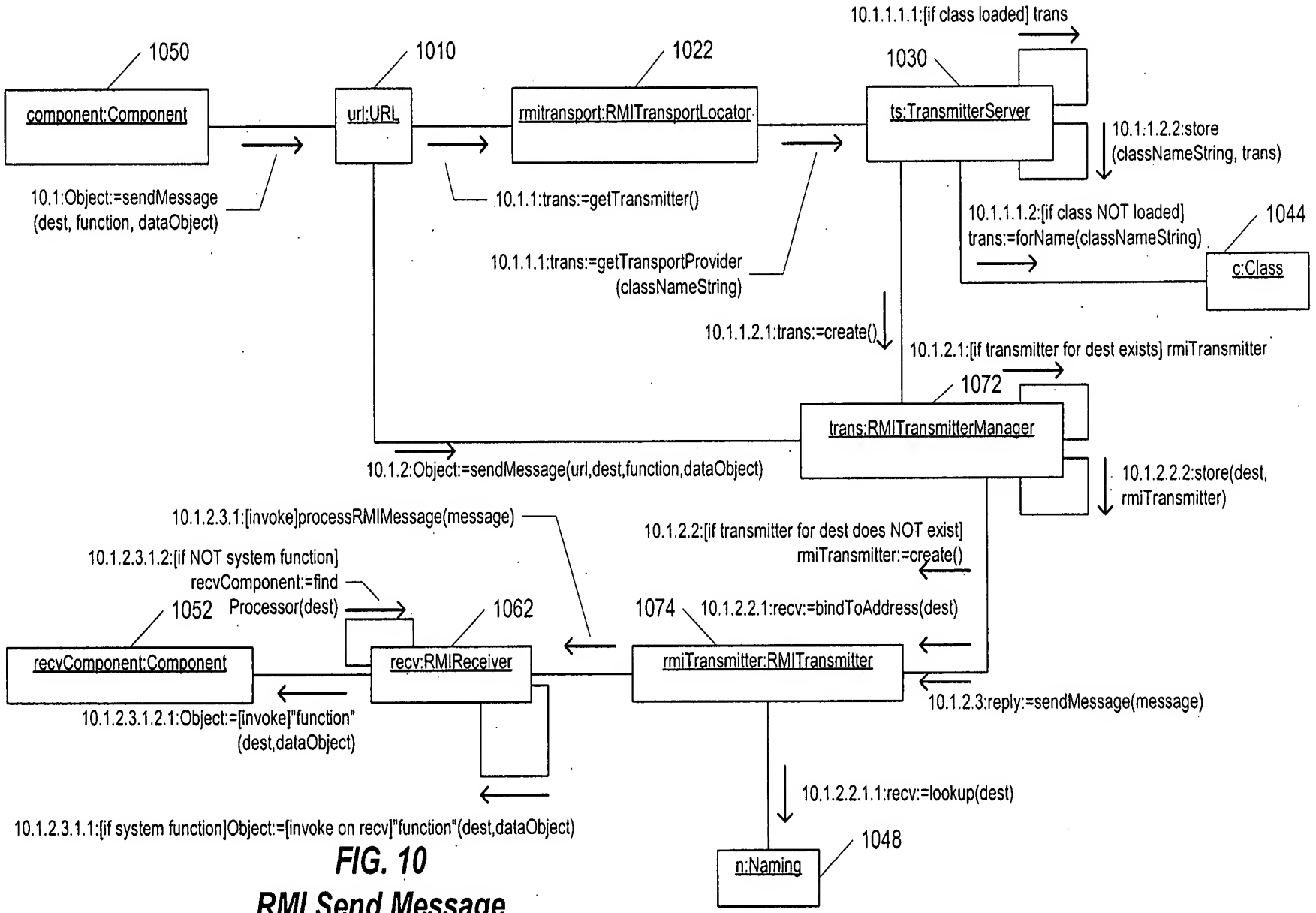

FIG. 10

RMI Send Message

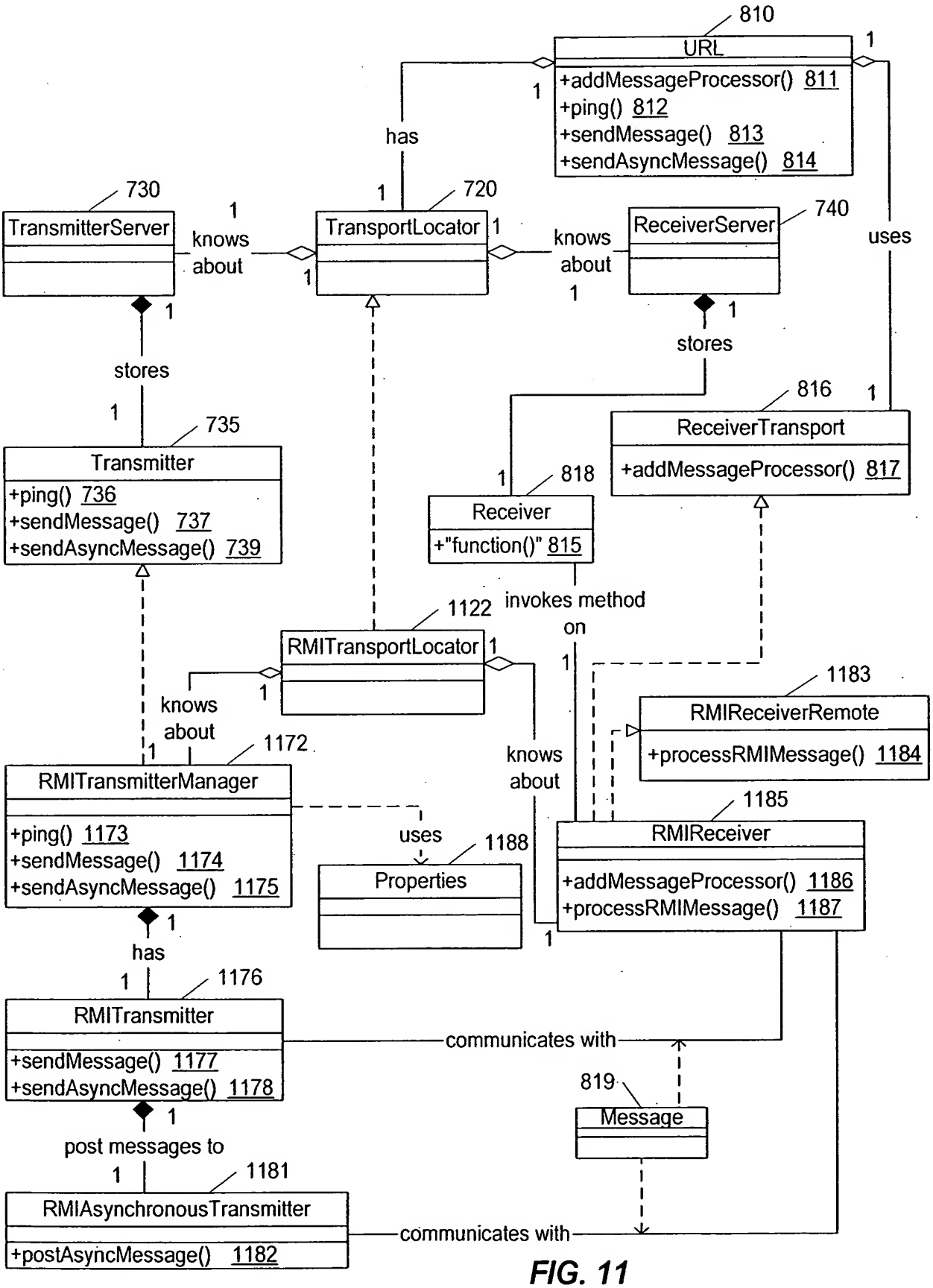
810
URL
+addMessageProcessor() 811
+ping() 812
+sendMessage() 813
+sendAsyncMessage() 814
has
uses
730
TransmitterServer
knows about
720
TransportLocator
knows about
740
ReceiverServer
stores
stores
735
Transmitter
+ping() 736
+sendMessage() 737
+sendAsyncMessage() 739
816
ReceiverTransport
+addMessageProcessor() 817
818
Receiver
+"function()" 815
invokes method on
1122
RMITransportLocator
knows about
1183
RMIReceiverRemote
+processRMIMessage() 1184
1172
RMITransmitterManager
+ping() 1173
+sendMessage() 1174
+sendAsyncMessage() 1175
uses
1188
Properties
knows about
1185
RMIReceiver
+addMessageProcessor() 1186
+processRMIMessage() 1187
has
1176
RMITransmitter
+sendMessage() 1177
+sendAsyncMessage() 1178
communicates with
819
Message
post messages to
1181
RMIAsynchronousTransmitter
+postAsyncMessage() 1182
communicates with

FIG. 11

APPROVED BY DRAFTSMAN	O.G. FIG.	
	CLASS	SUBCLASS

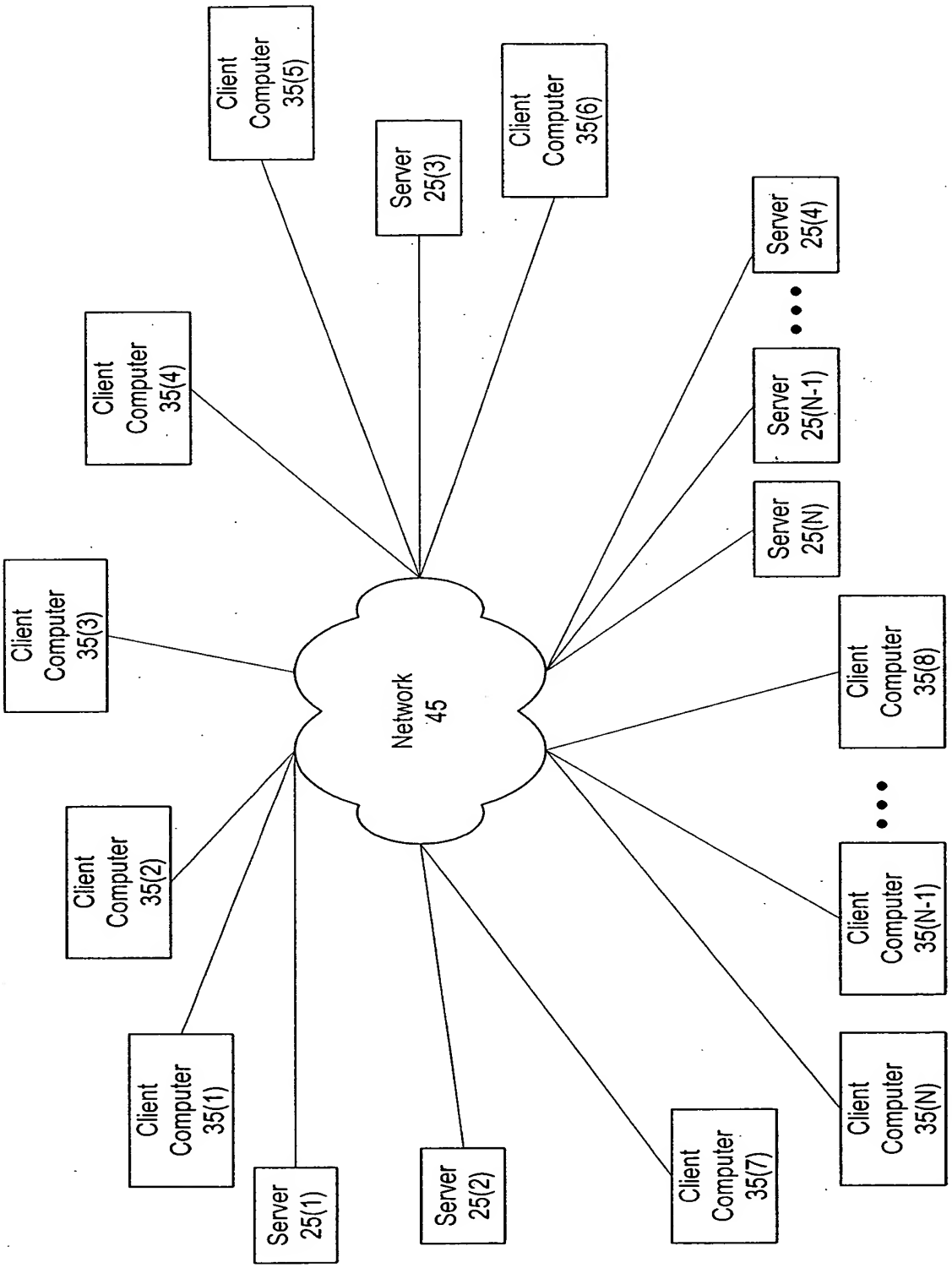

FIG. 12

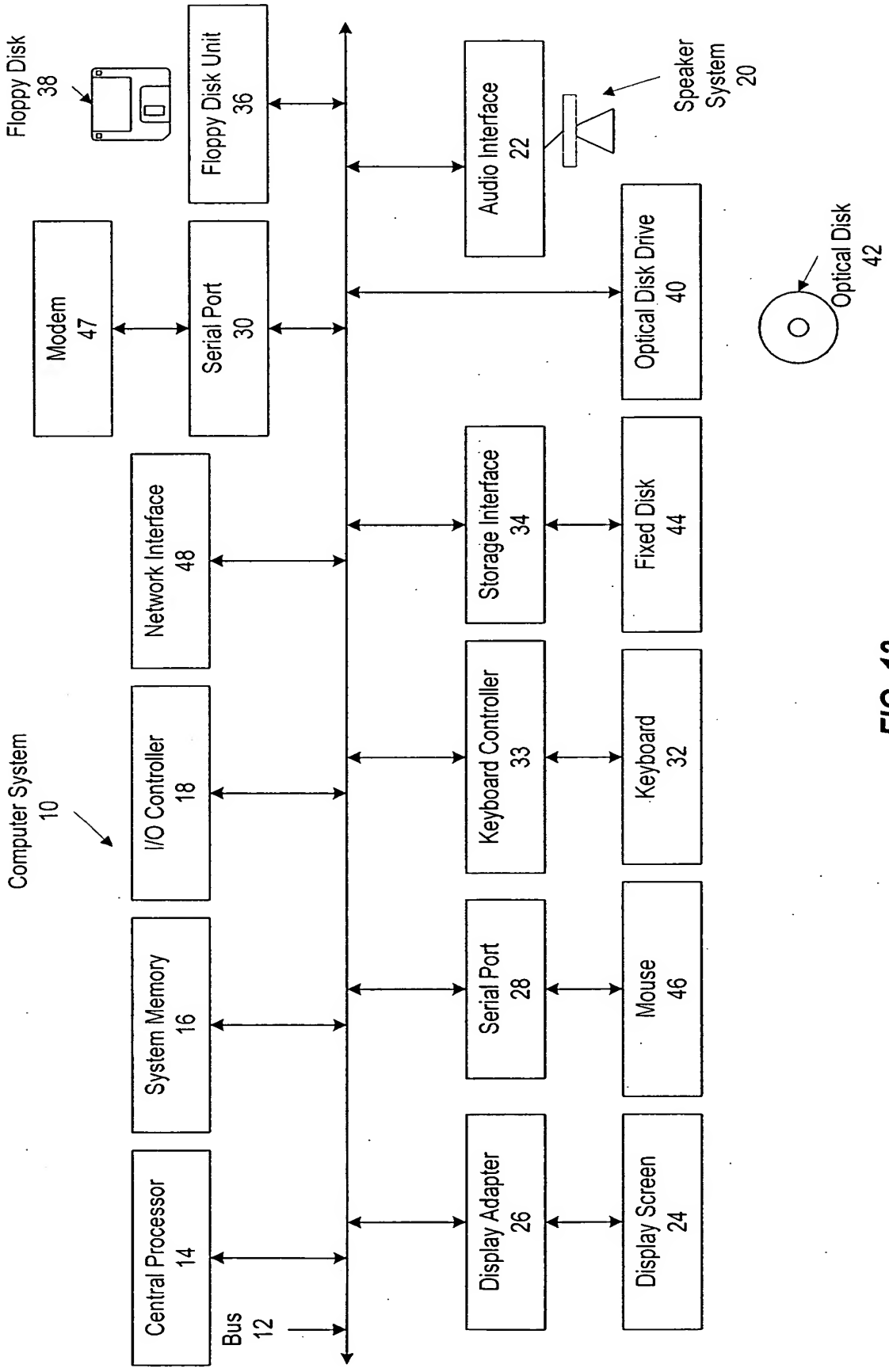
Computer System 10
Bus 12
Central Processor 14
System Memory 16
I/O Controller 18
Network Interface 48
Modem 47
Floppy Disk 38
Floppy Disk Unit 36
Serial Port 30
Display Adapter 26
Serial Port 28
Keyboard Controller 33
Storage Interface 34
Audio Interface 22
Display Screen 24
Mouse 46
Keyboard 32
Fixed Disk 44
Optical Disk Drive 40
Speaker System 20
Optical Disk 42

FIG. 13

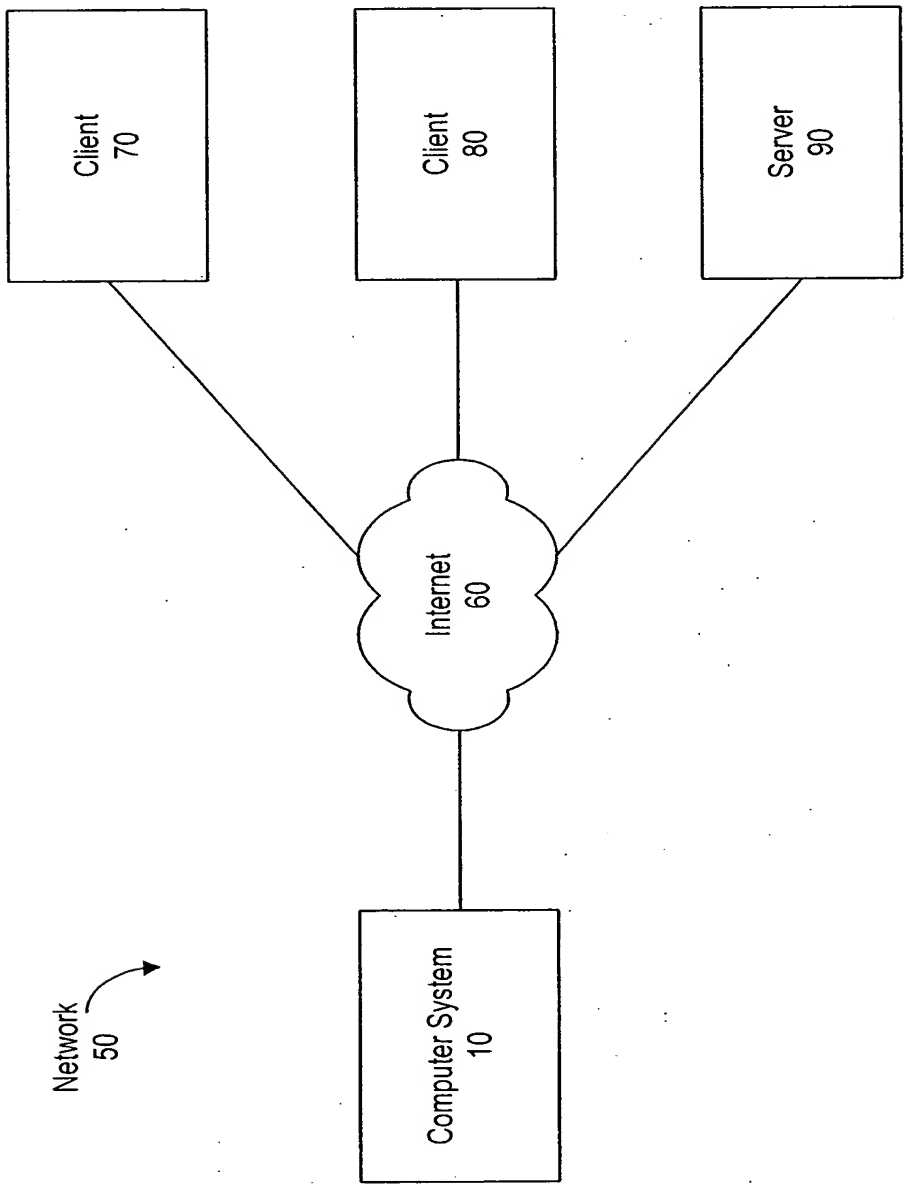
Client
70
Client
80
Server
90
Internet
60
Computer System
10
Network
50

FIG. 14